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(54) **DIGITAL TRANSMITTER-RECEIVER**

(57) **Abstract**

PURPOSE: To provide the digital transmitter-receiver which can optimally control fixed degradation at the time of low CN or adjacent transmission.

CONSTITUTION: This digital transmitter-receiver calculates a transmission error rate from the state of error correction at an error correcting circuit 8 by using a control part 10. An input C/N is calculated from that value, and either the cut-off frequency of base band filters 51 and 52 or the time constant of a control signal to an oscillator 44 for carrier reproduction is variably controlled so as to optimize the fixed degradation. Thus, the error rate at the low C/N is optimized and the fixed degradation is reduced so that a wide dynamic range can be obtained.

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